CPC COOPERATIVE PATENT CLASSIFICATION

C09J ADHESIVES
NON-MECHANICAL ASPECTS OF ADHESIVE PROCESSES IN GENERAL
ADHESIVE PROCESSES NOT PROVIDED FOR ELSEWHERE
USE OF MATERIALS AS ADHESIVES

(surgical adhesives A61L 24/00 ; processes for applying liquids or other fluent materials to surfaces in general B05D ; adhesives on the basis of non specified organic macromolecular compounds used as bonding agents in layered products B32B ; organic labelling fabrics or comparable materials or articles with deformable surface using adhesives and thermo-activatable adhesives respectively B65C 5/02 , B65C 5/04 ; organic macromolecular compounds C08 ; production of multi-layer textile fabrics D06M 17/00 ; preparation of glue or gelatine C09H ; adhesive labels, tag tickets or similar identification of indication means G09F 3/10)

NOTE

In this subclass, the following terms or expressions are used with the meanings indicated:

- "use of materials as adhesives" means the use of known or new polymers or products;
- "rubber" includes:
a) natural or conjugated diene rubbers;
b) rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for adhesives based on such macromolecular compounds);
- "based on" is defined by means of Note 3, below.

In this subclass, adhesives containing specific macromolecular substances are classified only according to the macromolecular substance, non-macromolecular substances not being taken into account.

Example: an adhesive containing polyethene and amino-propyltrimethoxysilane is classified in group C09J 123/06 .
However, adhesives containing combinations of organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond with prepolymers or polymers other than unsaturated polymers of groups C09J 159/00 to C09J 187/00 are classified according to the unsaturated non-macromolecular component in group C09J 4/00 .

Example: an adhesive containing polyethene and styrene monomer is classified in group C09J 4/06 .
Aspects relating to the physical nature of the adhesives or to the effects produced, as defined in group C09J 9/00 , if clearly and explicitely stated, are also classified in this subclass. Adhesives characterised by other features, e.g. additives, are classified in group C09J 11/00 , unless the macromolecular constituent is specified.

In this subclass, adhesives comprising two or more macromolecular constituents are classified according to the macromolecular constituent or constituents present in the highest proportion, i.e. the constituent on which the adhesive is based. If the

adhesive is based on two or more constituents, present in equal proportions, the adhesive is classified according to each of these constituents.

Examples: An adhesive containing 80 parts of polyethene and 20 parts of polyvinylchloride
is classified in group C09J 123/06 ;
An adhesive containing 40 parts of polyethene and 40 parts of polyvinylchloride is
classified in groups C09J 123/06 and C09J 127/06 .

An adhesive composition containing polyethylene and amino-propyltrimethoxysilane is classified in groups C09J 123/06 and C08K 5/544

Documents classified up until 09-2003: Classification is given in the form of C-Sets. The polymer in majority is given a C09J 101/00 - C09J 201/10 symbol, and the minor components are characterised by Indexing Codes taken from the list below. The Indexing Codes are linked. The polymer in majority is always first in the C-set.
List of M08L codes: C08L 23/00 , C08L 23/26 , C08L 25/00 , C08L 27/00 , C08L 27/04 , C08L 27/12 , C08L 29/00 , C08L 31/00 , C08L 33/00 , C08L 35/00 , C08L 37/00 , C08L 51/00 , C08L 53/00 , C08L 55/02 , C08L 61/04 , C08L 61/20 , C08L 63/00 , C08L 67/00 , C08L 67/02 , C08L 67/02 B, C08L 67/03 , C08L 67/04 , C08L 67/06 , C08L 67/07 , C08L 69/00 , C08L 69/00 B, C08L 71/00 , C08L 75/04 , C08L 77/00 , C08L 77/08 , C08L 77/12 , C08L 79/08 , C08L 79/08 B, C08L 81/00 , C08L 83/00 , C08L 85/00 , C08L 91/06 , C08L 95/00 or C08L 2666/00 - C08L 2666/86 . An additive is classified in the last appropriate place in the list as selected for each C09J group. Examples:

a. An adhesive composition based on a polyamide and a graft polymer is classified in (C09J 177/00 , C08L 2666/24). b. An adhesive composition based on polyvinylchloride and containing CaCO3 is classified according to note 4 of C08K , i.e. in C08K 3/26 and C09J 127/06 . If this adhesive composition contains also a polyamide, then the classification will be (C09J 127/06 , C08L 77/00 , C08K 3/26). c. An adhesive composition based on a polysiloxane (C09J 183/04) and containing a second polysiloxane, a phenol and silica is classified in (C09J 183/04 , C08L 83/04 , C08L 2666/34 , C08L 2666/54
3. From April 2012, after the notation C09J 4/00 , classification concerning the monomer may be added, in the form of C-sets. The notation is selected from C08F 210/00 to C08F 246/00 , C08G 77/00 to C08G 77/04 or C08G 77/20 to C08G 77/30 . Ex. 1: An adhesive based on methylmethacrylate monomer is classified in (C09J 4/00 , C08F 220/00). Ex. 2: An adhesive based on a dialkoxysilane monomer compound is classified in (C09J 4/00 , C08G 77/04).

From 01.09.2003 until April 2012: Classification is given in the form of C-Sets. The polymer in majority is given a C08L class, and the minor components are characterised by Indexing Codes taken from M08L or M08K and they are linked or unlinked. The polymer in majority is always first in the C-set. List of indexing codes in the C-Sets: C08L 1/00 , C08L 81/00 , C08L 83/00 , C08L 91/06 , C08L 95/00 or C08L 2666/02 - C08L 2666/08 , C08L 2666/14 - C08L 2666/26 . Examples:

a. An adhesive blend of 60 parts polyvinylchloride (C09J

127/06) and 40 parts polyamide is classified in (C09J 127/06 , C08L 2666/20), C08L 77/00 . b. An adhesive blend of 50 parts polyvinylchloride (C09J 127/06) and 50 parts polyamide (C09J 177/00) is classified in (C09J 127/06 , C08L 2666/20), (C09J 177/00 , C08L 2666/04), C08L 77/00 and C08L 27/06 . c. An adhesive composition based on polyvinylchloride and containing CaCO3 is classified according to [N: Note 4 of C08K , i.e. in C08K 3/26 , C09J 127/06 . If this composition contains also a polyamide, then the classification will be (C09J 127/06 , C08L 2666/20) and C08K 3/26 . d. A composition based on a first polysiloxane (C09J 183/04) and containing a second polysiloxane, a phenol and silica is classified in (C09J 183/04 , C08L 83/00 , C08K 5/13 , C08K 3/36) and C08L 2205/02 .

From April 2012 onwards, after the notation of groups C09J 101/00 to C09J 201/00 , notations concerning the other constituents of the adhesive composition may be added, in the form of C-sets. The further constituent is added with an indexing code. The indexing codes are chosen from C08L 1/00 -555/86 or M08K and they may be linked or unlinked: - C08L 1/00 - M08L 11/10 are linked. - C08L 2201/00 - C08L 2555/86 are unlinked. The polymer in majority is always first in the C-set.
Examples:

a. An adhesive composition containing polyethylene and amino-propyltrimethoxysilane is classified in groups C09J 123/06 and C08K 5/544 (unlinked). b. An adhesive containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in group (C09J 123/06 , C08L 27/06). c. An adhesive containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in groups (C09J 123/06 , C08L 27/06) and (C09J 127/06 , C08L 23/06). d. An adhesive containing 90% of polysiloxane (C09J 183/04) further containing of polyester (C08L 67/00) and an alcohol is classified in (C09J 183/04 , C08L 67/00 , C08K 5/05).

WARNING

The following IPC group is not used in the CPC system: Subject matter covered by these groups is classified in the following CPC group:
C09J 163/02 covered by C09J 163/00

Guide heading:

C09J 1/00 **Adhesives based on inorganic constituents**

C09J 1/02 **.** containing water-soluble alkali silicates

C09J 4/00 **Adhesives based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond;** { adhesives, based on monomers of macromolecular compounds of groups C09J 183/00 to C09J 183/16 }

C09J 4/06 . { Organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond } in combination with a macromolecular compound other than an unsaturated polymer of groups C09J 159/00 to C09J 187/00

C09J 5/00 **Adhesive processes in general**
Adhesive processes not provided for elsewhere, e.g. relating to primers (devices for applying glue to surfaces to be joined B05 , B27G 11/00)

C09J 5/02 . involving pretreatment of the surfaces to be joined

C09J 5/04 . involving separate application of adhesive ingredients to the different surfaces to be joined

C09J 5/06 . involving heating of the applied adhesive

C09J 5/08 . using foamed adhesives

C09J 5/10 . Joining materials by welding overlapping edges with an insertion of plastic material

C09J 7/00 **Adhesives in the form of films or foils**

NOTE

In this group, the indexing codes of subclass M09J are used

C09J 7/02 . on carriers
C09J 7/0203 . . { essentially based on heat-curable or heat-activatable adhesive }
C09J 7/0207 . . characterised by pressure-sensitive adhesive
C09J 7/021 . . . { based on macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds }
C09J 7/0214 . . . . { Natural or synthetic rubber }
C09J 7/0217 . . . . { Acrylic polymers }
C09J 7/0221 . . . . { Block-copolymers }
C09J 7/0225 . . { characterised by release features }
C09J 7/0228 . . . { characterised by the release coating composition }
C09J 7/0232 . . . { characterised by the structure of the release liner }
C09J 7/0235 . . . { characterised by the substrate of the release liner }
C09J 7/0239 . . { on carriers other than paper or textile fabrics }
C09J 7/0242 . . . { essentially based on heat-curable or heat-activatable adhesive }
C09J 7/0246 . . . { characterised by pressure-sensitive adhesive }
C09J 7/025 . . . { characterised by the release coating composition }
C09J 7/0253 . . . . { characterised by the structure }
C09J 7/0257 . . . { characterised by the priming intermediate layer composition }
C09J 7/026 . . . { characterised by the carrier }
C09J 7/0264 . . . . { Plastic, including metallised plastic }

C09J 7/0267 . . . . . { based on macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds }

C09J 7/0271 . . . . . { Polyolefin, including rubber }

C09J 7/0275 . . . . . { Ethylene or propylene polymers }

C09J 7/0278 . . . . . { Vinyl resins, e.g. PVC }

C09J 7/0282 . . . . . { based on macromolecular compounds obtained otherwise than by reactions involving only carbon-to-carbon unsaturated bonds }

C09J 7/0285 . . . . . { Polyester }

C09J 7/0289 . . . . . { Porous or cellular plastic }

C09J 7/0292 . . . . { Metal sheet }

C09J 7/0296 . . . . { Laminates }

C09J 7/04 . . on paper or textile fabric (adhesive bandages, dressings or adsorbent pads, { e.g. plasters } , A61L 15/06)

C09J 7/041 . . . { characterised by the adhesive composition }

C09J 7/042 . . . . { Water-activatable adhesive, e.g. gummed paper }

C09J 7/043 . . . . { Heat-curable or heat-activatable adhesive }

C09J 7/045 . . . . { Pressure-sensitive adhesive }

C09J 7/046 . . . { characterised by the release coating composition }

C09J 7/047 . . . . { characterised by the structure }

C09J 7/048 . . . { characterised by the backing impregnating composition }

C09J 9/00 **Adhesives characterised by their physical nature or the effects produced, e.g. glue sticks** (C09J 7/00 takes precedence)

C09J 9/005 . Glue sticks

C09J 9/02 . Electrically-conducting adhesives

C09J 11/00 **Features of adhesives not provided for in group C09J 9/00 , e.g. additives**

C09J 11/02 . Non-macromolecular additives

C09J 11/04 . . inorganic

C09J 11/06 . . organic

C09J 11/08 . Macromolecular additives

Guide heading: **Adhesives based on polysaccharides or on their derivatives**

C09J 101/00 **Adhesives based on cellulose, modified cellulose, or cellulose derivatives**

C09J 101/02 . Cellulose
Modified cellulose

C09J 101/04 . . Oxycellulose
Hydrocellulose

C09J 101/06 . . Cellulose hydrate

C09J 101/08 . Cellulose derivatives
C09J 101/10 . . Esters of organic acids (of both organic acids and inorganic acids C09J 101/20)
C09J 101/12 . . . Cellulose acetate
C09J 101/14 . . . Mixed esters, e.g. cellulose acetate-butyrate
C09J 101/16 . . Esters of inorganic acids (of both organic acids and inorganic acids C09J 101/20)
C09J 101/18 . . . Cellulose nitrate
C09J 101/20 . . Esters of both organic acids and inorganic acids
C09J 101/22 . . Cellulose xanthate
C09J 101/24 . . . Viscose
C09J 101/26 . . Cellulose ethers
C09J 101/28 . . . Alkyl ethers
C09J 101/282 . . . . { with halogen-substituted hydrocarbon radicals }
C09J 101/284 . . . . { with hydroxylated hydrocarbon radicals }
C09J 101/286 . . . . { substituted with acid radicals (C09J 101/282 takes precedence) }
C09J 101/288 . . . . { substituted with nitrogen containing radicals }
C09J 101/30 . . . Aryl ethers
Aralkyl ethers
C09J 101/32 . . Cellulose ether-esters

C09J 103/00 **Adhesives based on starch, amylose or amylopectin or on their derivatives or degradation products**

C09J 103/02 . Starch
Degradation products thereof, e.g. dextrin

C09J 103/04 . Starch derivatives
C09J 103/06 . . Esters
C09J 103/08 . . Ethers
C09J 103/10 . . Oxidised starch

C09J 103/12 . Amylose
Amylopectin
Degradation products thereof

C09J 103/14 . Amylose derivatives
Amylopectin derivatives
C09J 103/16 . . Esters
C09J 103/18 . . Ethers
C09J 103/20 . . Oxidised amylose
Oxidised amylopectin

C09J 105/00 **Adhesives based on polysaccharides or on their derivatives, not provided for in groups C09J 101/00 or C09J 103/00**

C09J 105/02 . Dextran

Derivatives thereof

C09J 105/04 . Alginic acid
Derivatives thereof

C09J 105/06 . Pectin
Derivatives thereof

C09J 105/08 . Chitin
Chondroitin sulfate
Hyaluronic acid
Derivatives thereof

C09J 105/10 . Heparin
Derivatives thereof

C09J 105/12 . Agar-agar
Derivatives thereof

C09J 105/14 . Hemicellulose
Derivatives thereof

C09J 105/16 . Cyclodextrin
Derivatives thereof

Guide heading: **Adhesives based on rubbers or on their derivatives**

C09J 107/00 **Adhesives based on natural rubber**

C09J 107/02 . Latex

C09J 109/00 **Adhesives based on homopolymers or copolymers of conjugated diene hydrocarbons**

C09J 109/02 . Copolymers with acrylonitrile

C09J 109/04 . . Latex

C09J 109/06 . Copolymers with styrene

C09J 109/08 . . Latex

C09J 109/10 . Latex (C09J 109/04 , C09J 109/08 take precedence)

C09J 111/00 **Adhesives based on homopolymers or copolymers of chloroprene**

C09J 111/02 . Latex

C09J 113/00 **Adhesives based on rubbers containing carboxyl groups**

C09J 113/02 . Latex

C09J 115/00 **Adhesives based on rubber derivatives** (C09J 111/00 , C09J 113/00 take precedence)

C09J 115/005 . { Hydrogenated nitrile rubber }

C09J 115/02 . Rubber derivatives containing halogen

C09J 117/00 **Adhesives based on reclaimed rubber**

C09J 119/00 **Adhesives based on rubbers, not provided for in groups C09J 107/00 to C09J 117/00**

C09J 119/003 . { Precrosslinked rubber; Scrap rubber; Used vulcanised rubber }

C09J 119/006 . { Rubber characterised by functional groups, e.g. telechelic diene polymers }

C09J 119/02 . Latex

C09J 121/00 **Adhesives based on unspecified rubbers**

C09J 121/02 . Latex

Guide heading: **Adhesives based on organic macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds**

C09J 123/00 **Adhesives based on homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond**
Adhesives based on derivatives of such polymers

C09J 123/02 . not modified by chemical after-treatment
C09J 123/025 . . { Copolymer of an unspecified olefine with a monomer other than an olefine }
C09J 123/04 . . Homopolymers or copolymers of ethene
C09J 123/06 . . . Polyethene
C09J 123/08 . . . Copolymers of ethene (C09J 123/16 takes precedence)
C09J 123/0807 . . . . { Copolymers of ethene with unsaturated hydrocarbons only containing more than three carbon atoms }
C09J 123/0815 . . . . . { Copolymers of ethene with aliphatic 1-olefins }
C09J 123/0823 . . . . . { Copolymers of ethene with aliphatic cyclic olefins }
C09J 123/083 . . . . . { Copolymers of ethene with aliphatic polyenes, i.e. containing more than one unsaturated bond }
C09J 123/0838 . . . . . { Copolymers of ethene with aromatic monomers }
C09J 123/0846 . . . . { Copolymers of ethene with unsaturated hydrocarbons containing other atoms than carbon or hydrogen atoms }

C09J 123/0853 ..... { Vinylacetate }
C09J 123/0861 ..... { Saponified vinylacetate }
C09J 123/0869 ..... { Acids or derivatives thereof }
C09J 123/0876 ..... { Neutralised polymers, i.e. ionomers }
C09J 123/0884 ..... { Epoxide containing esters }
C09J 123/0892 ..... { containing monomers with other atoms than carbon, hydrogen or oxygen atoms }
C09J 123/10 .. Homopolymers or copolymers of propene
C09J 123/12 ... Polypropene
C09J 123/14 ... Copolymers of propene (C09J 123/16 takes precedence)
C09J 123/142 .... { at least partially crystalline copolymers of propene with other olefins }
C09J 123/145 .... { Copolymers of propene with monomers having more than one C=C double bond }
C09J 123/147 .... { Copolymers of propene with monomers containing other atoms than carbon or hydrogen atoms }
C09J 123/16 .. { Elastomeric } ethene-propene or ethene-propene-diene copolymers, { e.g. EPR and EPDM rubbers }

NOTE

This group is used for polymers comprising both ethylene and propylene

C09J 123/18 .. Homopolymers or copolymers of hydrocarbons having four or more carbon atoms
C09J 123/20 ... having four to nine carbon atoms
C09J 123/22 .... Copolymers of isobutene
Butyl rubber { Homo- or copolymers of other iso-olefines }
C09J 123/24 ... having ten or more carbon atoms

C09J 123/26 . modified by chemical after-treatment
C09J 123/28 .. by reaction with halogens or compounds containing halogen (C09J 123/32 takes precedence)
C09J 123/283 ... { Halogenated homo- or copolymers of iso-olefines }
C09J 123/286 ... { Chlorinated polyethylene }
C09J 123/30 .. by oxidation
C09J 123/32 .. by reaction with compounds containing phosphorus or sulfur
C09J 123/34 ... by chlorosulfonation
C09J 123/36 .. by reaction with compounds containing nitrogen, e.g. by nitration

C09J 125/00 Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring Adhesives based on derivatives of such polymers

C09J 125/02 . Homopolymers or copolymers of hydrocarbons
C09J 125/04 .. Homopolymers or copolymers of styrene
C09J 125/06 ... Polystyrene

C09J 125/08 . . . Copolymers of styrene (C09J 129/08 , C09J 135/06 , C09J 155/02 take precedence)

C09J 125/10 . . . . with conjugated dienes

C09J 125/12 . . . . with unsaturated nitriles

C09J 125/14 . . . . with unsaturated esters

C09J 125/16 . . Homopolymers or copolymers of alkyl-substituted styrenes

C09J 125/18 . Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen

C09J 127/00 Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen
Adhesives based on derivatives of such polymers

C09J 127/02 . not modified by chemical after-treatment

C09J 127/04 . . containing chlorine atoms

C09J 127/06 . . . Homopolymers or copolymers of vinyl chloride

C09J 127/08 . . . Homopolymers or copolymers of vinylidene chloride

C09J 127/10 . . containing bromine or iodine atoms

C09J 127/12 . . containing fluorine atoms

C09J 127/14 . . . Homopolymers or copolymers of vinyl fluoride

C09J 127/16 . . . Homopolymers or copolymers of vinylidene fluoride

C09J 127/18 . . . Homopolymers or copolymers of tetrafluoroethene

C09J 127/20 . . . Homopolymers or copolymers of hexafluoropropene

C09J 127/22 . modified by chemical after-treatment

C09J 127/24 . . halogenated

C09J 129/00 Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal, or ketal radical
Adhesives based on hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids
Adhesives based on derivatives of such polymers

C09J 129/02 . Homopolymers or copolymers of unsaturated alcohols (C09J 129/14 takes precedence)

C09J 129/04 . . Polyvinyl alcohol
Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids

C09J 129/06 . . Copolymers of allyl alcohol

C09J 129/08 . . . with vinyl aromatic monomers

C09J 129/10 . Homopolymers or copolymers of unsaturated ethers (C09J 135/08 takes precedence)

C09J 129/12 . Homopolymers or copolymers of unsaturated ketones

C09J 129/14 . Homopolymers or copolymers of acetals or ketals obtained by polymerisation of unsaturated acetals or ketals or by after-treatment of polymers of unsaturated alcohols

C09J 131/00 **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid, or of a haloformic acid** (based on hydrolysed polymers C09J 129/00)
Adhesives based on derivatives of such polymers

C09J 131/02 . Homopolymers or copolymers of esters of monocarboxylic acids

C09J 131/04 . . Homopolymers or copolymers of vinyl acetate

C09J 131/06 . Homopolymers or copolymers of esters of polycarboxylic acids

C09J 131/08 . . of phthalic acid

C09J 133/00 **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by only one carboxyl radical, or of salts, anhydrides, esters, amides, imides, or nitriles thereof**
Adhesives based on derivatives of such polymers

C09J 133/02 . Homopolymers or copolymers of acids
Metal or ammonium salts thereof

C09J 133/04 . Homopolymers or copolymers of esters { C09J 143/04 takes precedence }

C09J 133/06 . . of esters containing only carbon, hydrogen and oxygen, the oxygen atom being present only as part of the carboxyl radical

C09J 133/062 . . . { Copolymers with monomers not covered by C09J 133/06 }

C09J 133/064 . . . . { containing anhydride, COOH or COOM groups, with M being metal or onium-cation }

C09J 133/066 . . . . { containing -OH groups }

C09J 133/068 . . . . { containing glycidyl groups }

C09J 133/08 . . . Homopolymers or copolymers of acrylic acid esters

C09J 133/10 . . . Homopolymers or copolymers of methacrylic acid esters

C09J 133/12 . . . . Homopolymers or copolymers of methyl methacrylate

C09J 133/14 . . of esters containing halogen, nitrogen, sulfur or oxygen atoms in addition to the carboxy oxygen

C09J 133/16 . . . Homopolymers or copolymers of esters containing halogen atoms

C09J 133/18 . Homopolymers or copolymers of nitriles

C09J 133/20 . . Homopolymers or copolymers of acrylonitrile (C09J 155/02 takes precedence)

C09J 133/22 . . Homopolymers or copolymers of nitriles containing four or more carbon atoms

C09J 133/24 . Homopolymers or copolymers of amides or imides

C09J 133/26 . . Homopolymers or copolymers of acrylamide or methacrylamide

C09J 135/00 **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least another carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof**
Adhesives based on derivatives of such polymers

C09J 135/02 . Homopolymers or copolymers of esters (C09J 135/06 , C09J 135/08 take precedence)

C09J 135/04 . Homopolymers or copolymers of nitriles (C09J 135/06 , C09J 135/08 take precedence)

C09J 135/06 . Copolymers with vinyl aromatic monomers

C09J 135/08 . Copolymers with vinyl ethers

C09J 137/00 **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen** (based on polymers of cyclic esters of polyfunctional acids C09J 131/00 ; based on polymers of cyclic anhydrides of unsaturated acids C09J 135/00)
Adhesives based on derivatives of such polymers

C09J 139/00 **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen**
Adhesives based on derivatives of such polymers

C09J 139/02 . Homopolymers or copolymers of vinylamine

C09J 139/04 . Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member

C09J 139/06 . . Homopolymers or copolymers of N-vinyl-pyrrolidones

C09J 139/08 . . Homopolymers or copolymers of vinyl-pyridine

C09J 141/00 **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur**
Adhesives based on derivatives of such polymers

C09J 143/00 **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal**
Adhesives based on derivatives of such polymers

C09J 143/02 . Homopolymers or copolymers of monomers containing phosphorus

C09J 143/04 . Homopolymers or copolymers of monomers containing silicon

C09J 145/00 **Adhesives based on homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic system**
Adhesives based on derivatives of such polymers (based on polymers of cyclic esters of polyfunctional acids C09J 131/00 ; based on polymers of cyclic anhydrides or imides C09J 135/00)

C09J 145/02 . Coumarone-indene polymers

C09J 147/00 **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds**
Adhesives based on derivatives of such polymers (C09J 145/00 takes precedence; based on conjugated diene rubbers C09J 109/00 to C09J 121/00)

C09J 149/00 **Adhesives based on homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds**
Adhesives based on derivatives of such polymers

C09J 151/00 **Adhesives based on graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds** (based on ABS polymers C09J 155/02)
Adhesives based on derivatives of such polymers

C09J 151/003 . { grafted on to macromolecular compounds obtained by reactions only involving unsaturated carbon-to-carbon bonds (C09J 151/04 , C09J 151/06 take precedence) }

C09J 151/006 . { grafted on to block copolymers containing at least one sequence of polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds }

C09J 151/02 . grafted on to polysaccharides

C09J 151/04 . grafted on to rubbers

C09J 151/06 . grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon-to-carbon double bond

C09J 151/08 . grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds

C09J 151/085 . . { on to polysiloxanes }

C09J 151/10 . grafted on to inorganic materials

C09J 153/00 **Adhesives based on block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds**
Adhesives based on derivatives of such polymers

C09J 153/005 . { Modified block copolymers }

C09J 153/02 . Vinyl aromatic monomers and conjugated dienes

C09J 153/025 . . { modified }

C09J 155/00 **Adhesives based on homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups C09J 123/00 to C09J 153/00**

C09J 155/005 . { Homopolymers or copolymers obtained by polymerisation of macromolecular compounds terminated by a carbon-to-carbon double bond }

C09J 155/02 . ABS [Acrylonitrile-Butadiene-Styrene] polymers

C09J 155/04 . Polyadducts obtained by the diene synthesis

C09J 157/00 **Adhesives based on unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds**

C09J 157/02 . Copolymers of mineral oil hydrocarbons

C09J 157/04 . Copolymers in which only the monomer in minority is defined

C09J 157/06 . Homopolymers or copolymers containing elements other than carbon and hydrogen

C09J 157/08 . . containing halogen atoms

C09J 157/10 . . containing oxygen atoms

C09J 157/12 . . containing nitrogen atoms

Guide heading: **Adhesives based on organic macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds**

C09J 159/00 **Adhesives based on polyacetals**
Adhesives based on derivatives of polyacetals

C09J 159/02 . Polyacetals containing polyoxymethylene sequences only

C09J 159/04 . Copolyoxymethylenes

C09J 161/00 **Adhesives based on condensation polymers of aldehydes or ketones** (with polyalcohols C09J 159/00 ; with polynitriles C09J 177/00)
Adhesives based on derivatives of such polymers

C09J 161/02 . Condensation polymers of aldehydes or ketones only

C09J 161/04 . Condensation polymers of aldehydes or ketones with phenols only

C09J 161/06 . . of aldehydes with phenols

C09J 161/12 . . . with polyhydric phenols

C09J 161/14 . . . Modified phenol-aldehyde condensates

C09J 161/16 . . of ketones with phenols

C09J 161/18 . Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only

C09J 161/20 . Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (with amino phenols C09J 161/04)

C09J 161/22 . . of aldehydes with acyclic or carbocyclic compounds

C09J 161/24 . . . with urea or thiourea

C09J 161/26 . . of aldehydes with heterocyclic compounds

C09J 161/28 . . . with melamine

C09J 161/30 . . of aldehydes with heterocyclic and acyclic or carbocyclic compounds

C09J 161/32 . . Modified amine-aldehyde condensates

C09J 161/34 . Condensation polymers of aldehydes or ketones with monomers covered by at least two of the groups C09J 161/04 , C09J 161/18 and C09J 161/20

C09J 163/00 **Adhesives based on epoxy resins**
Adhesives based on derivatives of epoxy resins

C09J 163/04 . Epoxynovolacs

C09J 163/06 . Triglycidylisocyanurates

C09J 163/08 . Epoxidised polymerised polyenes

C09J 163/10 . Epoxy resins modified by unsaturated compounds

NOTE

In groups C09J 165/00 to C09J 185/00 , in the absence of an indication to the contrary, adhesives based on macromolecular compounds obtained by reactions forming two different linkages in the main chain are classified according to the linkage present in excess.

C09J 165/00 **Adhesives based on macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain** (C09J 107/00 to C09J 157/00 , C09J 161/00 take precedence)
Adhesives based on derivatives of such polymers

C09J 165/02 . Polyphenylenes

C09J 165/04 . Polyxylylenes

C09J 167/00 **Adhesives based on polyesters obtained by reactions forming a carboxylic ester link in the main chain** (based on polyester-amides C09J 177/12 ; based on polyester-imides C09J 179/08)
Adhesives based on derivatives of such polymers

C09J 167/02 . Polyesters derived from dicarboxylic acids and dihydroxy compounds (C09J 167/06 takes precedence)

C09J 167/025 . . { containing polyether sequences }

C09J 167/03 . . the dicarboxylic acids and dihydroxy compounds having the carboxyl - and the hydroxy groups directly linked to aromatic rings

C09J 167/04 . Polyesters derived from hydroxycarboxylic acids, e.g. lactones (C09J 167/06 takes precedence)

C09J 167/06 . Unsaturated polyesters having carbon-to-carbon unsaturation

C09J 167/07 . . having terminal carbon-to-carbon unsaturated bonds

C09J 167/08 . Polyesters modified with higher fatty oils or their acids, or with natural resins or resin acids

C09J 169/00 **Adhesives based on polycarbonates**
Adhesives based on derivatives of polycarbonates

C09J 169/005 . { Polyester-carbonates }

C09J 171/00 **Adhesives based on polyethers obtained by reactions forming an ether link in the main chain** (based on polyacetals C09J 159/00 ; based on epoxy resins C09J 163/00 ; based on polythioether-ethers C09J 181/02 ; based on polyethersulfones C09J 181/06)
Adhesives based on derivatives of such polymers

C09J 171/02 . Polyalkylene oxides

C09J 171/03 . . Polyepihalohydrins

C09J 171/08 . Polyethers derived from hydroxy compounds or from their metallic derivatives (C09J 171/02 takes precedence) { not used }

C09J 171/10 . . from phenols { not used }

C09J 171/12 . . . Polyphenylene oxides

C09J 171/14 . . Furfuryl alcohol polymers

C09J 173/00 **Adhesives based on macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups C09J 159/00 to C09J 171/00**
Adhesives based on derivatives of such polymers

C09J 173/02 . Polyanhydrides

C09J 175/00 **Adhesives based on polyureas or polyurethanes**
Adhesives based on derivatives of such polymers

C09J 175/02 . Polyureas

C09J 175/04 . Polyurethanes

C09J 175/06 . . from polyesters

C09J 175/08 . . from polyethers

C09J 175/10 . . from polyacetals

C09J 175/12 . . from compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group

C09J 175/14 . . Polyurethanes having carbon-to-carbon unsaturated bonds

C09J 175/16 . . . having terminal carbon-to-carbon unsaturated bonds

C09J 177/00 **Adhesives based on polyamides obtained by reactions forming a carboxylic amide link in the main chain** (based on polyhydrazides C09J 179/06 ; based oC09Jn polyamide-imides C09J 179/08)
Adhesives based on derivatives of such polymers

C09J 177/02 . Polyamides derived from omega-amino carboxylic acids or from lactams thereof (C09J 177/10 takes precedence)

C09J 177/04 . Polyamides derived from alpha-amino carboxylic acids (C09J 177/10 takes precedence)

C09J 177/06 . Polyamides derived from polyamines and polycarboxylic acids (C09J 177/10 takes precedence)

C09J 177/08 . . from polyamines and polymerised unsaturated fatty acids

C09J 177/10 . Polyamides derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids

C09J 177/12 . Polyester-amides

C09J 179/00 **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing nitrogen, with or without oxygen, or carbon only, not provided for in groups C09J 161/00 to C09J 177/00**

C09J 179/02 . Polyamines

C09J 179/04 . Polycondensates having nitrogen-containing heterocyclic rings in the main chain
Polyhydrazides
Polyamide acids or similar polyimide precursors

C09J 179/06 . . Polyhydrazides
Polytriazoles
Polyamino-triazoles
Polyoxadiazoles

C09J 179/08 . . Polyimides
Polyester-imides
Polyamide-imides
Polyamide acids or similar polyimide precursors

C09J 179/085 . . . { Unsaturated polyimide precursors }

C09J 181/00 **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing sulfur, with or without nitrogen, oxygen, or carbon only**
Adhesives based on polysulfones

Adhesives based on derivatives of such polymers

C09J 181/02 . Polythioethers
Polythioether-ethers

C09J 181/04 . Polysulfides

C09J 181/06 . Polysulfones
Polyethersulfones

C09J 181/08 . Polysulfonates

C09J 181/10 . Polysulfonamides
Polysulfonimides

C09J 183/00 **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon, with or without sulfur, nitrogen, oxygen, or carbon only**
Adhesives based on derivatives of such polymers

NOTE

In this main group, from 01.09.2010 onwards, new documents are classified according to the following system. The adhesive is identified with the previous existing ECLA(+B) notation, e.g. C09J 183/04 +B4S (for an adhesive containing two or more siloxanes), while the information as to which different polymers are present in the adhesive is identified with additional indexing codes, e.g. C08G 77/12 and C08G 77/20

C09J 183/02 . Polysilicates

C09J 183/04 . Polysiloxanes

C09J 183/06 . . containing silicon bound to oxygen-containing groups (C09J 183/12 takes precedence)

C09J 183/08 . . containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and oxygen

C09J 183/10 . Block or graft copolymers containing polysiloxane sequences (obtained by polymerising a compound having a carbon-to-carbon double bond on to a polysiloxane C09J 151/08 , C09J 153/00)

C09J 183/12 . . containing polyether sequences

C09J 183/14 . in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms (C09J 183/10 takes precedence)

C09J 183/16 . in which all the silicon atoms are connected by linkages other than oxygen atoms

C09J 185/00 **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon**

Adhesives based on derivatives of such polymers

C09J 185/02 . containing phosphorus

C09J 185/04 . containing boron

C09J 187/00 **Adhesives based on unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds**

C09J 187/005 . { Block or graft polymers not provided for in groups C09J 101/00 to C09J 185/04 }

Guide heading: **Adhesives based on natural macromolecular compounds or on derivatives thereof** (based on polysaccharides C09J 101/00 to C09J 105/00 ; based on natural rubber C09J 107/00)

C09J 189/00 **Adhesives based on proteins**
Adhesives based on derivatives thereof (foodstuff preparations A23J 3/00)

C09J 189/005 . { Casein }

C09J 189/02 . Casein-aldehyde condensates

C09J 189/04 . Products derived from waste materials, e.g. horn, hoof or hair

C09J 189/06 . . derived from leather or skin

C09J 191/00 **Adhesives based on oils, fats or waxes**
Adhesives based on derivatives thereof (polishing compositions, ski waxes C09G ; soaps, detergent compositions C11D)

C09J 191/005 . { Drying oils }

C09J 191/02 . Vulcanised oils, e.g. factice

C09J 191/04 . Linoxyn

C09J 191/06 . Waxes

C09J 191/08 . . Mineral waxes

C09J 193/00 **Adhesives based on natural resins**
Adhesives based on derivatives thereof (polishing compositions C09G)

C09J 193/02 . Shellac

C09J 193/04 . Rosin

C09J 195/00 **Adhesives based on bituminous materials, e.g. asphalt, tar, pitch**

C09J 195/005 . { Aqueous compositions, e.g. emulsions }

C09J 197/00 **Adhesives based on lignin-containing materials**

C09J 197/002 . { Peat, lignite, coal (briquettes C10L 5/00 ; working-up peat; ceramic products based on carbon or carbides) }

C09J 197/005 . { Lignin }

C09J 197/007 . { Cork }

C09J 197/02 . Lignocellulosic material, e.g. wood, straw or bagasse

C09J 199/00 **Adhesives based on natural macromolecular compounds or on derivatives thereof, not provided for in groups C09J 189/00 to C09J 197/00**

C09J 201/00 **Adhesives based on unspecified macromolecular compounds**

C09J 201/005 . { Dendritic macromolecules }

C09J 201/02 . characterised by the presence of specified groups, { e.g. terminal or pendant functional groups }

C09J 201/025 . . { containing nitrogen atoms }

C09J 201/04 . . containing halogen atoms

C09J 201/06 . . containing oxygen atoms { (C09J 201/025 takes precedence) }

C09J 201/08 . . . Carboxyl groups

C09J 201/10 . . containing hydrolysable silane groups

Guide heading:

C09J 2201/00 **Adhesives based on unspecified macromolecular compounds**

C09J 2201/02 . characterised by the presence of specified groups, { e.g. terminal or pendant functional groups }

C09J 2201/12 . . by the arrangement of layers

C09J 2201/122 . . . the adhesive layer being present only on one side of the carrier, e.g. single-sided adhesive tape

C09J 2201/128 . . . the adhesive layer being present on both sides of the carrier, e.g. double-sided adhesive tape

C09J 2201/134 . . . . the opposite adhesive layers being different

C09J 2201/16 . . by the structure of the carrier layer

C09J 2201/162 . . . the carrier layer being a laminate constitued by plastic layers only

C09J 2201/20 . . by perforations through the adhesive tape
C09J 2201/24 . . the adhesive being in the form of fibres
C09J 2201/28 . . the adhesive coating being discontinuous
C09J 2201/32 . . the adhesive layer comprising non-adhesive protrusions
C09J 2201/36 . . the adhesive layer being constituted by at least two or more adjacent or superposed adhesive layers, e.g. multilayer adhesive
C09J 2201/40 . . the adhesive layer being formed by alternating adhesive areas being chemically different
C09J 2201/60 . . by other properties
C09J 2201/602 . . . being conductive
C09J 2201/606 . . . the adhesive being pressure-sensitive, i.e. tacky at temperatures inferior to 30°C
C09J 2201/61 . . . the adhesive being a hot-melt, i.e. not tacky at temperatures inferior to 30°C
C09J 2201/614 . . . the adhesive being water-activatable
C09J 2201/618 . . . the adhesive losing adhesive strength when being stretched, e.g. stretch adhesive
C09J 2201/622 . . . the parameters being the characterising features
C09J 2201/626 . . . the adhesive effect being based on a so-called Gecko structure

Guide heading:

C09J 2203/00 Applications

C09J 2203/10 . Use of the adhesive composition in processes
C09J 2203/102 . . in the form of dowels, anchors or cartridges

C09J 2203/30 . Use of the adhesive tape
C09J 2203/302 . . for bundling cables
C09J 2203/306 . . for protecting painted surfaces, e.g. of cars
C09J 2203/31 . . as a masking tape for painting
C09J 2203/314 . . for carpets
C09J 2203/318 . . for the production of liquid crystal displays
C09J 2203/322 . . for the production of solar panels
C09J 2203/326 . . for bonding electronic components such as wafers, chips or semiconductors
C09J 2203/33 . . for batteries or fuel cells
C09J 2203/334 . . as a label
C09J 2203/338 . . as tamper-evident tape or label
C09J 2203/342 . . for flying splice applications

Guide heading:

C09J 2205/00 Other features

C09J 2205/10 . of adhesive tapes
Production process thereof

C09J 2205/102 . . additives as essential feature of the adhesive layer, the additive itself being indicated with the corresponding code of M08K

C09J 2205/106 . . additives as essential feature of the substrate, the additive itself being indicated by the corresponding code of M08K

C09J 2205/11 . . Presence of microspheres

C09J 2205/114 . . Presence of a copolymer

NOTE

This group is to be used in combination with combined indexing codes of M09J401-M09J499 in case a copolymer is present but not a blend

C09J 2205/30 . of adhesive processes in general

C09J 2205/302 . . Process for debonding adherents

C09J 2205/306 . . Process of pretreatment for improving adhesion of rubber on metallic surfaces

C09J 2205/31 . . Use of irradiation

C09J 2400/00 Presence of inorganic and organic materials

C09J 2400/10 . Presence of inorganic materials

C09J 2400/12 . . Ceramic

C09J 2400/123 . . . in the substrate

C09J 2400/126 . . . in the pretreated surface to be joined

C09J 2400/14 . . Glass

C09J 2400/143 . . . in the substrate

C09J 2400/146 . . . in the pretreated surface to be joined

C09J 2400/16 . . Metal

C09J 2400/163 . . . in the substrate

C09J 2400/166 . . . in the pretreated surface to be joined

C09J 2400/20 . Presence of organic materials

C09J 2400/22 . . Presence of unspecified polymer

C09J 2400/221 . . . in the barrier layer

C09J 2400/223 . . . in the primer coating

C09J 2400/225 . . . in the release layer

C09J 2400/226 . . . in the substrate

C09J 2400/228 . . . in the pretreated surface to be joined

C09J 2400/24 . . Presence of a foam

C09J 2400/243 . . . in the substrate

C09J 2400/246 . . . in the pretreated surface to be joined

C09J 2400/26 . . Presence of textile or fabric

C09J 2400/263 . . . in the substrate

C09J 2400/266 . . . in the pretreated surface to be joined
C09J 2400/28 . . Presence of paper
C09J 2400/283 . . . in the substrate
C09J 2400/286 . . . in the pretreated surface to be joined
C09J 2400/30 . . Presence of wood
C09J 2400/303 . . . in the substrate
C09J 2400/306 . . . in the pretreated surface to be joined

Guide heading:

C09J 2401/00 Presence of cellulose

C09J 2401/001 . in the barrier layer
C09J 2401/003 . in the primer coating
C09J 2401/005 . in the release layer
C09J 2401/006 . in the substrate
C09J 2401/008 . in the pretreated surface to be joined

Guide heading:

C09J 2403/00 Presence of starch

C09J 2403/001 . in the barrier layer
C09J 2403/003 . in the primer coating
C09J 2403/005 . in the release layer
C09J 2403/006 . in the substrate
C09J 2403/008 . in the pretreated surface to be joined

C09J 2405/00 Presence of polysaccharides

C09J 2405/001 . in the barrier layer
C09J 2405/003 . in the primer coating
C09J 2405/005 . in the release layer
C09J 2405/006 . in the substrate

C09J 2405/008 . in the pretreated surface to be joined

C09J 2407/00 Presence of natural rubber

C09J 2407/001 . in the barrier layer

C09J 2407/003 . in the primer coating

C09J 2407/005 . in the release layer

C09J 2407/006 . in the substrate

C09J 2407/008 . in the pretreated surface to be joined

C09J 2409/00 Presence of diene rubber

C09J 2409/001 . in the barrier layer

C09J 2409/003 . in the primer coating

C09J 2409/005 . in the release layer

C09J 2409/006 . in the substrate

C09J 2409/008 . in the pretreated surface to be joined

C09J 2411/00 Presence of chloroprene

C09J 2411/001 . in the barrier layer

C09J 2411/003 . in the primer coating

C09J 2411/005 . in the release layer

C09J 2411/006 . in the substrate

C09J 2411/008 . in the pretreated surface to be joined

C09J 2413/00 Presence of rubbers containing carboxyl groups

C09J 2413/001 . in the barrier layer

C09J 2413/003 . in the primer coating

C09J 2413/005 . in the release layer

C09J 2413/006 . in the substrate

C09J 2413/008 . in the pretreated surface to be joined

C09J 2415/00 Presence of rubber derivatives

C09J 2415/001 . in the barrier layer

C09J 2415/003 . in the primer coating

C09J 2415/005 . in the release layer

C09J 2415/006 . in the substrate

C09J 2415/008 . in the pretreated surface to be joined

C09J 2417/00 Presence of reclaimed rubber

C09J 2417/001 . in the barrier layer

C09J 2417/003 . in the primer coating

C09J 2417/005 . in the release layer

C09J 2417/006 . in the substrate

C09J 2417/008 . in the pretreated surface to be joined

C09J 2421/00 Presence of unspecified rubber

C09J 2421/001 . in the barrier layer

C09J 2421/003 . in the primer coating

C09J 2421/005 . in the release layer

C09J 2421/006 . in the substrate

C09J 2421/008 . in the pretreated surface to be joined

C09J 2423/00 Presence of polyolefin

C09J 2423/001 . in the barrier layer

C09J 2423/003 . in the primer coating

C09J 2423/005 . in the release layer

C09J 2423/006 . in the substrate

C09J 2423/008 . in the pretreated surface to be joined

C09J 2423/04 . Presence of homo or copolymers of ethene
C09J 2423/041 . . in the barrier layer
C09J 2423/043 . . in the primer coating
C09J 2423/045 . . in the release layer
C09J 2423/046 . . in the substrate
C09J 2423/048 . . in the pretreated surface to be joined

C09J 2423/10 . Presence of homo or copolymers of propene
C09J 2423/101 . . in the barrier layer
C09J 2423/103 . . in the primer coating
C09J 2423/105 . . in the release layer
C09J 2423/106 . . in the substrate
C09J 2423/108 . . in the pretreated surface to be joined

C09J 2423/16 . Presence of ethen-propene or ethene-propene-diene copolymers
C09J 2423/161 . . in the barrier layer
C09J 2423/163 . . in the primer coating
C09J 2423/165 . . in the release layer
C09J 2423/166 . . in the substrate
C09J 2423/168 . . in the pretreated surface to be joined

C09J 2425/00 Presence of styrenic polymer

C09J 2425/001 . in the barrier layer

C09J 2425/003 . in the primer coating

C09J 2425/005 . in the release layer

C09J 2425/006 . in the substrate

C09J 2425/008 . in the pretreated surface to be joined

C09J 2427/00 Presence of halogenated polymer

C09J 2427/001 . in the barrier layer

C09J 2427/003 . in the primer coating

C09J 2427/005 . in the release layer

C09J 2427/006 . in the substrate

C09J 2427/008 . in the pretreated surface to be joined

C09J 2429/00 **Presence of polyvinyl alcohol**

C09J 2429/001 . in the barrier layer

C09J 2429/003 . in the primer coating

C09J 2429/005 . in the release layer

C09J 2429/006 . in the substrate

C09J 2429/008 . in the pretreated surface to be joined

C09J 2431/00 **Presence of polyvinyl acetate**

C09J 2431/001 . in the barrier layer

C09J 2431/003 . in the primer coating

C09J 2431/005 . in the release layer

C09J 2431/006 . in the substrate

C09J 2431/008 . in the pretreated surface to be joined

C09J 2433/00 **Presence of acrylic polymer**

C09J 2433/001 . in the barrier layer

C09J 2433/003 . in the primer coating

C09J 2433/005 . in the release layer

C09J 2433/006 . in the substrate

C09J 2433/008 . in the pretreated surface to be joined

C09J 2451/00 **Presence of graft polymer**

C09J 2451/001 . in the barrier layer

C09J 2451/003 . in the primer coating

C09J 2451/005 . in the release layer

C09J 2451/006 . in the substrate

C09J 2451/008 . in the pretreated surface to be joined

C09J 2453/00 **Presence of block copolymer**

C09J 2453/001 . in the barrier layer

C09J 2453/003 . in the primer coating

C09J 2453/005 . in the release layer

C09J 2453/006 . in the substrate

C09J 2453/008 . in the pretreated surface to be joined

C09J 2455/00 **Presence of ABS**

C09J 2455/001 . in the barrier layer

C09J 2455/003 . in the primer coating

C09J 2455/005 . in the release layer

C09J 2455/006 . in the substrate

C09J 2455/008 . in the pretreated surface to be joined

C09J 2459/00 **Presence of polyacetal**

C09J 2459/001 . in the barrier layer

C09J 2459/003 . in the primer coating

C09J 2459/005 . in the release layer

C09J 2459/006 . in the substrate

C09J 2459/008 . in the pretreated surface to be joined

C09J 2461/00 **Presence of phenolic resin**

C09J 2461/001 . in the barrier layer

C09J 2461/003 . in the primer coating

C09J 2461/005 . in the release layer

C09J 2461/006 . in the substrate

C09J 2461/008 . in the pretreated surface to be joined

C09J 2463/00 **Presence of epoxy resin**

C09J 2463/001 . in the barrier layer

C09J 2463/003 . in the primer coating

C09J 2463/005 . in the release layer

C09J 2463/006 . in the substrate

C09J 2463/008 . in the pretreated surface to be joined

C09J 2465/00 **Presence of polyphenylene**

C09J 2465/001 . in the barrier layer

C09J 2465/003 . in the primer coating

C09J 2465/005 . in the release layer

C09J 2465/006 . in the substrate

C09J 2465/008 . in the pretreated surface to be joined

C09J 2467/00 **Presence of polyester**

C09J 2467/001 . in the barrier layer

C09J 2467/003 . in the primer coating

C09J 2467/005 . in the release layer

C09J 2467/006 . in the substrate

C09J 2467/008 . in the pretreated surface to be joined

C09J 2469/00 **Presence of polycarbonate**

C09J 2469/001 . in the barrier layer

C09J 2469/003 . in the primer coating

C09J 2469/005 . in the release layer

C09J 2469/006 . in the substrate

C09J 2469/008 . in the pretreated surface to be joined

C09J 2471/00 **Presence of polyether**

C09J 2471/001 . in the barrier layer

C09J 2471/003 . in the primer coating

C09J 2471/005 . in the release layer

C09J 2471/006 . in the substrate

C09J 2471/008 . in the pretreated surface to be joined

C09J 2475/00 **Presence of polyurethane**

C09J 2475/001 . in the barrier layer

C09J 2475/003 . in the primer coating

C09J 2475/005 . in the release layer

C09J 2475/006 . in the substrate

C09J 2475/008 . in the pretreated surface to be joined

C09J 2477/00 **Presence of polyamide**

C09J 2477/001 . in the barrier layer

C09J 2477/003 . in the primer coating

C09J 2477/005 . in the release layer

C09J 2477/006 . in the substrate

C09J 2477/008 . in the pretreated surface to be joined

C09J 2479/00 **Presence of polyamine or polyimide**

C09J 2479/02 . polyamine
C09J 2479/021 . . in the barrier layer
C09J 2479/023 . . in the primer coating
C09J 2479/025 . . in the release layer
C09J 2479/026 . . in the substrate
C09J 2479/028 . . in the pretreated surface to be joined

C09J 2479/08 . polyimide

C09J 2479/081 . . in the barrier layer
C09J 2479/083 . . in the primer coating
C09J 2479/085 . . in the release layer
C09J 2479/086 . . in the substrate
C09J 2479/088 . . in the pretreated surface to be joined

C09J 2481/00 Presence of sulfur containing polymers

C09J 2481/001 . in the barrier layer
C09J 2481/003 . in the primer coating
C09J 2481/005 . in the release layer
C09J 2481/006 . in the substrate
C09J 2481/008 . in the pretreated surface to be joined

C09J 2483/00 Presence of polysiloxane

C09J 2483/001 . in the barrier layer
C09J 2483/003 . in the primer coating
C09J 2483/005 . in the release layer
C09J 2483/006 . in the substrate
C09J 2483/008 . in the pretreated surface to be joined

C09J 2489/00 Presence of protein

C09J 2489/001 . in the barrier layer
C09J 2489/003 . in the primer coating
C09J 2489/005 . in the release layer
C09J 2489/006 . in the substrate
C09J 2489/008 . in the pretreated surface to be joined

C09J 2491/00 Presence of oils, fats or waxes

C09J 2491/001 . in the barrier layer
C09J 2491/003 . in the primer coating

C09J 2491/005 . in the release coating

C09J 2491/006 . in the substrate

C09J 2491/008 . in the pretreated surface to be joined

C09J 2493/00 Presence of natural resin

C09J 2493/001 . in the barrier layer

C09J 2493/003 . in the primer coating

C09J 2493/005 . in the release layer

C09J 2493/006 . in the substrate

C09J 2493/008 . in the pretreated surface to be joined

C09J 2495/00 Presence of bitume

C09J 2495/001 . in the barrier layer

C09J 2495/003 . in the primer coating

C09J 2495/005 . in the release layer

C09J 2495/006 . in the substrate

C09J 2495/008 . in the pretreated surface to be joined

C09J 2497/00 Presence of lignin

C09J 2497/001 . in the barrier layer

C09J 2497/003 . in the primer coating

C09J 2497/005 . in the release layer

C09J 2497/006 . in the substrate

C09J 2497/008 . in the pretreated surface to be joined

C09J 2499/00 Presence of natural macromolecular compounds or on derivatives thereof, not provided for in groups C09J 2489/00 to C09J 2497/00

C09J 2499/001 . in the barrier layer

C09J 2499/003 . in the primer coating

C09J 2499/005 . in the release layer

C09J 2499/006 . in the substrate

C09J 2499/008 . in the pretreated surface to be joined